

OWNER

The U.S. Government. Operated by the U.S. Army Corps of Engineers, Fort Worth District.

ENGINEER (Design)

U.S. Army Corps of Engineers.

LOCATION

On the Bosque River in McLennan County, 2 miles west of Waco.

DRAINAGE AREA

1,670 square miles.

DAM

Type

Length

Maximum height

Top width

Earthfill with concrete spillway

24,618 ft

140 ft

20 ft

SPILLWAY

Type

Length (net)

Crest elevation

Control

Ogee

560.0 ft

465.0 ft above msl

14 tainter gates, each 40 by 35 ft

OUTLET WORKS

Type

Invert elevation

Control

1 conduit, 20 ft diameter

400.0 ft above msl

3 gates, each 6 ft 8 in. by 20 ft

AUTHORIZATION

Federal:

State:

Flood Control Act, September 3, 1954.

Permit No. 1115 (Application No. 1187) August 15, 1929, to the city of Waco with authority to impound 39,000 acre-feet of water in the old reservoir with annual diversion of 85,000 acre-feet. This amount was reduced to 40,000 acre-feet by order of the State Board of Water Engineers October 13, 1960. Permit No. 1931 (Application No. 2082) June 6, 1957, allows the 39,000 acre-feet to be stored in the new reservoir. Permit No. 1930 (Application No. 2081) March 9, 1960, to the city of Waco changing former allocations to 104,100 acre-feet storage and annual diversion to 59,100 acre-feet. Brazos River Authority has purchased 91,000 acre-feet of storage capacity in the reservoir for \$6,000,000.

RESERVOIR DATA

| FEATURE                            | ELEVATION<br>(FEET ABOVE MSL) | CAPACITY<br>(ACRE-FEET) | AREA<br>(ACRES) |
|------------------------------------|-------------------------------|-------------------------|-----------------|
| Top of dam                         | 510.0                         | —                       | —               |
| Maximum design water surface       | 505.0                         | —                       | —               |
| Top of flood control storage space | 500.0                         | 828,300                 | 21,390          |
| Spillway crest                     | 465.0                         | 726,400                 | 19,440          |
| Top of conservation storage space  | 455.0                         | 233,500                 | 9,220           |
| Streambed                          | 455.0                         | 152,500                 | 7,270           |
| Maximum tailwater                  | 370.0                         | —                       | —               |
| Sediment reserve below             | 431.6                         | —                       | —               |
| Sediment reserve above             | 455.0                         | 48,400                  | —               |
| Usable conservation storage space  | 455.0                         | 20,600                  | —               |
|                                    | —                             | 104,100                 | —               |

GENERAL

Construction started

Impoundment of water began

Dam completed

General contractor

Estimated cost

June 13, 1958

February 26, 1965

June 24, 1965

Earthwork: Clement Bros., Hickory North Carolina  
Spillway: Elmer Gardner  
Repairs: R. G. LaTourneau, Inc.

\$49,407,000

